

# PATENT ABSTRACTS OF JAPAN

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## (54) DEMODULATOR FOR HIERARCHIZED TRANSMISSION DIGITAL SIGNAL

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To display a stable and easily visible video by eliminating the frequent occurrence of the switching of hierarchical received data.

**SOLUTION:** A channel for receiving signals is selected by means of a reception antenna means 1 and a frequency converting means 2, and received signals are demodulated by means of a PSK demodulating means 3. Each hierarchical data transmitted by each modulation method are fetched by means of a high- hierarchical data decoding means 4 and a low-hierarchical data decoding means 5. A reception hierarchy switching control means 9 switches received hierarchical data by discriminating the error rate measured by means of a high hierarchical error rate measuring means 6 at different error rate discriminating levels for switching high hierarchy to low hierarchy and low hierarchy to high hierarchy. At the time of switching the received hierarchical data from low hierarchy to high hierarchy, the switching is performed when the reception of the high hierarchical data is stabilized and a receivable C/N value is predicted by predicting the transition of the C/N value by means of a C/N value transition predicting means 8 from the result of the error rate discrimination and the transition of the received C/N value during a fixed period measured by means of a C/N value measuring means 7.

